

# STATICS SCHEDULE

2017/18 – 2nd semester

DATE	LECTURE (Tuesday 10 <sup>15</sup> -12 <sup>00</sup> Room K221.)	DATE	PRACTICAL (Wednesday 10 <sup>15</sup> -12 <sup>00</sup> Room K391.)
1. 06.02	Repetition: supports of rigid body, static determinacy, support reactions. Planar composite structures: hierarchy, support and joint reactions.	1. 07.02	Repetition: supports of rigid bodies, equilibrium, support reactions of simple structures and 3 hinged structures.
2. 13.02	Complex structures.	2. 14.02	Support and joint reactions of statically determinate composite structures – 1
3. 20.02	Trusses: design rules, static determinacy. Trusses: calculation methods.	3. 21.02	Support and joint reactions of statically determinate composite structures – 2 Bar forces of trusses – 1: joint method, nil bars, notable joints.
4. 27.02	Internal forces (N,V,M), characteristics of the diagrams, connection between the diagrams.	4. 28.02	Bar forces of trusses – 2: section method, composite trusses.
5. 06.03	Internal forces of simple structures, skew beams, broken segments, branching, maximal values of internal forces.	5. 07.03	Internal forces of simple beams – 1: straight beams.
6. 13.03	<b>TEST 1: calculation of support reactions and joint forces, trusses Deadline for HW1 (optional)</b>	6. 14.03	Internal forces of simple beams – 2: skew beams, broken segments, branching.
7. 20.03	<i>Sketch week</i>	7. 21.03	<i>Sketch week</i>
8. 27.03	Internal force diagrams: composite structures, curved structures.	8. 28.03	Internal forces of complex structures – 1
9. 03.04	<i>Spring holidays</i>	9. 04.04	<i>Spring holidays</i>
10. 10.04	Simplification of symmetrical structures. Loading schemes, envelope diagrams.	10. 11.04	Internal forces of complex structures – 2
11. 17.04	Equilibrium of 3D rigid bodies, calculation of support reactions, internal forces.	11. 18.04	Loading schemes, envelope diagrams.
12. 24.04	<b>TEST 2 – internal forces Deadline for HW2 (optional)</b>	12. 25.04	Spatial structures: equilibrium, support reactions, internal forces.
13. 01.05	<i>Holiday</i>	13. 02.05	Analysis of complex structures: modelling a beam-girder structure, loads, support reactions, loading scheme.
14. 08.05	Cable structures, vaults.	14. 09.05	Cable structures, vaults.
15. 15.05	<i>Processing week</i>	15. 16.05	<i>Processing week</i>
16. 22.05	<i>Replacement week</i>	15. 23.05	<i>Replacement week – replacement TEST</i>

Exam dates: will be given later